#### **MEMORANDUM**

TO: Mr. Addison Rice

Anderson, Mulholland and Associates

**DATE:** June 29, 2016

FROM: R. Infante

FILE: 1605308E

RE:

Data Validation Air samples SDG: 1605308E

#### **SUMMARY**

Full validation was performed on the data for several gas samples analyzed for methanol by Compendium Method TO-15. Determination of Volatile Organic Compounds (VOCs) In Air Collected In Specially-Prepared Canisters and Analyzed By Gas Chromatography/Mass Spectrometry (GC/MS), January, 1999". The samples were collected at the Bristol Myer Squib facility, Humacao, PR site on May 14, 2016 and submitted to Eurofins Air Toxics, Inc. of Folson, California that analyzed and reported the results under delivery groups (SDG) 1605308E.

The sample results were assessed according to USEPA data validation guidance documents in the following order of precedence: Volatile Organic Analysis of Ambient Air in Canisters by Method TO-15, (SOP # HW-31. Revision #4. October, 2006. The QC criteria and data validation actions listed on the data review worksheets are from the primary guidance document, unless otherwise noted.

In general the data is valid as reported and may be used for decision making purposes. The data results are acceptable for use.

#### **SAMPLES**

The samples included in the review are listed below

Client Sample ID	Lab. Sample ID	Collected Date	Matrix	Analysis
B7IA-1	1605308E-01A	05/14/2016	Air	Methanol
B7IA-2	1605308E-03A	05/14/2016	Air	Methanol
B7IA-6	1605308E-07A	05/14/2016	Air	Methanol

#### **REVIEW ELEMENTS**

Sample data were reviewed for the following parameters, where applicable to the method

- Agreement of analysis conducted with chain of custody (COC) form
- o Holding time and sample preservation
- o Gas chromatography/mass spectrometry (GC/MS) tunes
- Initial and continuing calibrations
- Method blanks/trip blanks/field blank

- o Canister cleaning certification criteria
- Surrogate spike recovery
- o Internal standard performance and retention times
- Field duplicate results
- Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) results
- Quantitation limits and sample results

#### DISCUSSION

#### Agreement of Analysis Conducted with COC Request

Sample reports corresponded to the analytical request designated on the chain-of-custody form except for the following:

• The Chain of Custody (COC) information for sample B7IA-1 did not match the information on the canister with regard to canister identification. The client was notified of the discrepancy and the information on the canister was used to process and report the sample.

## **Holding Times and Sample Preservation**

All samples analyzed within the recommended method holding time. All summa canisters received in good conditions.

### **Initial and Continuing Calibrations**

#### Methanol by Compendium Method TO-15

One point calibration performed. Initial and continuing calibrations meet method specific requirements. Initial calibration retention times meet method specific requirements.

### Method Blank/Trip Blank/Field Blank

Target analytes were not detected in laboratory method blanks.

No trip/field blank analyzed with this data package.

#### **Laboratory/Field Duplicate Results**

No field/laboratory duplicates were analyzed as part of this data set.

#### LCS/LCSD Results

#### **Methanol**

No LCS/LCSD (blank spike) was analyzed by the laboratory associated with this data package.

# **Quantitation Limits and Sample Results**

Dilutions were performed (see worksheet).

Rafael

LIC #

Calculations were spot checked.

# Certification

The following samples 1605308E-01A; 1605308E-03A and 1605308E-07A were analyzed following standard procedures accepted by regulatory agencies. The quality control requirements met the methods criteria except in the occasions described in this document.

Rafael Infante

Chemist License 1888



# Client Sample ID: B7IA-1 Lab ID#: 1605308E-01A

# **EPA METHOD TO-15 GC/MS**

File Name: Dil. Factor:	14052006 1.64	Date of Collection: 5/14/16 8:11:00  Date of Analysis: 5/20/16 11:18 AM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methanol	160	Not Detected	210	Not Detected
Container Type: 6 Liter Summ	na Canister (100% Certifie	d)		
				Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		105		70-130
Toluene-d8		102		70-130
4-Bromofluorobenzene		99		70-130



# Client Sample ID: B7IA-2 Lab ID#: 1605308E-03A

### **EPA METHOD TO-15 GC/MS**

File Name:	14052007	Dete	of Collections Eld	4/46 0.25.00 DM
Dil. Factor:	2.07	Date of Collection: 5/14/16 8:25:00 Pt Date of Analysis: 5/20/16 11:46 AM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methanol	210	Not Detected	270	Not Detected
Container Type: 6 Liter Summ	a Canister (100% Certifie	d)		
Surrogates		%Recovery		Method Limits
1,2-Dichloroethane-d4		103		70-130
Toluene-d8		100		70-130
4-Bromofluorobenzene		99		70-130



# Air Toxics

# Client Sample ID: B7IA-6 Lab ID#: 1605308E-07A

### **EPA METHOD TO-15 GC/MS**

File Name:	14052008		of Collection: 5/1	
Dil. Factor:	2.68	Date of Analysis: 5/20/16 12:19 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methanol	270	Not Detected	350	Not Detected
Container Type: 6 Liter Sumr	na Canister (100% Certifie	d)		
_		3		Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		104		70-130
Toluene-d8		101		70-130
4-Bromofluorobenzene		99		70-130

eurofins		Air Toxics
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Sample Transportation Notice

Fedex trailing No. 7830 81486749

Relinquishing signature on this document indicates that sample is being shipped in compliance with 180 BLUE RAVINE ROAD, SUITE B all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no flability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnity Air Toxics Limited against any claim, demand, or action, of any kind, related to the

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collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922 Page of Project Manager Project info: Lab Use Only **Turn Around** Collected by: (Print and Sign) Time: Pressurized by: □ Normal Date: Rush Project # Pressurization Gas: Phone 914-257-0400 Fax Project Name He Date Time Canister Pressure/Vacuum Lab I.D. Field Sample I.D. (Location) of Collection of Collection Can # **Analyses Requested** Initial Receipt Ola 2011 10-15 KIC 2012 57/3/K TO-15 7.0 +30 030 2025 10-15 130 13.0 KK + 30 10.0 5/13/16 TO-15 430 # 30 01a TO-15 +30 Relinquished by: (signature) Date/Time Received by: (signature) Date/Time Notes: 05/16/16 1500 Relinquished by: (signature) Date/Time Received by: (signature) Date/Time Relinquished by: (signature) Date/Time Received by: (signature) Date/Time 1045 5/18/16 Shipper Name Air Bill # Lab Temp (°C) Condition Custody Seals Intact? Work Order # Use FLAR.X Yes Only No None recieved samples ola, 03a, 07a 5/18/16

Date:05/1	
REVIEW OF VOLATILE ORGANIC PACKAGE  The following guidelines for evaluating volatile organics were created to delineate requactions. This document will assist the reviewer in using professional judgment to make decision and in better serving the needs of the data users. The sample results were assess USEPA data validation guidance documents in the following order of precedence: Q "Compendium Method TO-15. Determination of Volatile Organic Compounds (VOCs) In a Specially-Prepared Canisters and Analyzed By Gas Chromatography/Mass Spectron January, 1999"; USEPA Hazardous Waste Support Branch. Validating Air Samples. Analysis of Ambient Air in Canisters by Method TO-15, (SOP # HW-31. Revision #4. Octob QC criteria and data validation actions listed on the data review worksheets are from the prodocument, unless otherwise noted.  The hardcopied (laboratory name) _EurofinsAir_Toxics data package recreviewed and the quality control and performance data summarized. The data review for VOC.	more informed sed according to C criteria from Air Collected In netry (GC/MS), /olatile Organic per, 2006). The rimary guidance seived has been
Lab. Project/SDG No.:1605308E Sample matrix: No. of Samples:3	_Air
Trip blank No.: Field blank No.: Equipment blank No.: Field duplicate No.:	
X Data CompletenessX Laboratory ControlX Holding TimesX Field DuplicatesX GC/MS TuningX CalibrationsX Internal Standard PerformanceX Compound IdentifyX Blanks X Compound QuantX Surrogate RecoveriesX Quantitation LimitN/A_ Matrix Spike/Matrix Spike Duplicate	ications
Overall Comments:Methanol_by_method_TO-15	<u>-</u>
Definition of Qualifiers:  J- Estimated results  U- Compound not detected  R- Rejected data  UJ- Estimated nondetect  Reviewer:	
Date:	

# **DATA REVIEW WORKSHEETS**

# **DATA COMPLETENESS**

MISSING INFORMATION	DATE LAB. CONTACTED	DATE RECEIVED
		<b></b>

All cntena were metX	
Criteria were not met	
and/or see below	

#### **HOLDING TIMES**

The objective of this parameter is to ascertain the validity of the results based on the holding time of the sample from time of collection to the time of analysis.

Complete table for all samples and note the analysis and/or preservation not within criteria

SAMPLE ID	DATE SAMPLED	DATE ANALYZED	рН	ACTION
All samples anal	yzed within the recom	mended method holdin	g time. Al	I summa canisters received
in good condition	ns. The Chain of Custo	ody (COC) information	for samp	le B7IA-1 did not match the
information on t	he canister with rega	rd to canister identifica	ation. The	e client was notified of the
discrepancy and	the information on the	canister was used to p	rocess ar	nd report the sample.
			_	
<del>, -</del> -				
			+	<del> </del>
			_ _	

### Criteria

Aqueous samples - 14 days from sample collection for preserved samples (pH < 2, 4°C), no air

Aqueous samples – 7 days from sample collection for unpreserved samples, 4°C, no air bubbles. Soil samples- 7 days from sample collection.

Cooler temperature (Criteria: 4 + 2 °C): N/A – summa canisters

## **Actions**

If the VOCs vial(s) have air bubbles, estimate positive results (J) and reject nondetects (R). If the % solids of soil samples is 10-50%, estimates positive results (J) and nondetects (UJ) If the % solid of soil samples is < 10%, estimate positive results (J) and reject nondetects (R).

If holding times are exceeded but < 14 days beyond criteria, estimate positive results (J) and nondetects (UJ).

If holding times are exceeded but < 28 days beyond criteria, estimate positive results (J) and reject nondetects (R).

If holding times are grossly exceeded (> 28 days beyond criteria), reject all results (R).

If samples were not iced or if the ice were melted (> 10°C), estimate positive results (J) and nondetects (UJ).

	All criteria were metX_	_
Criteria	were not met see below	

# **DATA REVIEW WORKSHEETS**

# GC/MS TUNING

If mass calibration	n is in error, all associated o	data are rejected.	
List	the	samples	affected:
If no, use profest qualified or reject		ine whether the associated data	should be accepted,
XBFB tunii	ng was performed for every	24 hours of sample analysis.	
XThe BFB	performance results were r	reviewed and found to be within th	ne specified criteria.
The assessment standard tuning C		determine if the sample instrum	entation is within the

All criteria were met	<u> </u>
Criteria were not met	
and/or see below	

#### CALIBRATION VERIFICATION

Compliance requirements for satisfactory instrument calibration are established to ensure that the instrument is capable of producing and maintaining acceptable quantitative data.

Date of initial calibration:	05/20/2016
Dates of continuing calibration	n:05/20/2016
Instrument ID numbers:N	/ISD-14
Matrix/Level:	_Air/low

DATE	LAB ID#	FILE	CRITERIA OUT RFs, %RSD, %D, r	COMPOUND	SAMPLES AFFECTED
One point calibration	calibration retention	on. Initia n times n	l and continuing calibra neet method specific re	ations meet method sp quirements.	pecific requirements. Initial

### Criteria

All RFs must be > 0.05 regardless of method requirements for SPCC.

All %RSD must be < 15 % regardless of method requirements for CCC.

All %Ds must be  $\leq$  30% regardless of method requirements for CCC.

Method TO-15 does not specify criterion for the curve correlation coefficient (r). A limit for r of  $\geq$  0.995 has therefore been utilized as professional judgment.

#### **Actions**

If any compound has an initial RF or a continuing RF of < 0.05, estimate positive results (J) and reject nondetects (R), regardless of method requirements.

If any compound has a %RSD > 15%, estimate positive results (J) and use professional judgment to qualify nondetects.

If any compound has a %RSD > 90%, estimate positive results (J) and reject nondetects (R).

If any compound has a % D > 30%, estimate positive results (J) and reject nondetects (R).

If any compound has a % D > 30%, estimate positive results (J) and nondetects (UJ).

If any compound has a % D > 90%, estimate positive results (J) and reject nondetects (R).

If any compound has r < 0.995, estimate positive results and nondetects.

A separate worksheet should be filled for each initial curve

All criteria were met _	х_	
Criteria were not met		
and/or see below		

# V A. BLANK ANALYSIS RESULTS (Sections 1 & 2)

The assessment of the blank analysis results is to determine the existence and magnitude of contamination problems. The criteria for evaluation of blanks apply only to blanks associated with the samples, including trip, equipment, and laboratory blanks. If problems with any blanks exist, all data associated with the case must be carefully evaluated to determine whether or not there is an inherent variability in the data for the case, or if the problem is an isolated occurrence not affecting other data.

List the contamination in the blanks below. High and low levels blanks must be treated separately.

Laboratory blanks

DATE ANALYZED	LAB ID	LEVEL/ MATRIX	COMPOUND	CONCENTRATION UNITS
			fic_criteria	
Field/Equipmen				
DATE ANALYZED	LAB ID	LEVEL/ MATRIX	COMPOUND	CONCENTRATION UNITS
N 1995				- 130 H
		MAC IV		

All criteria were met _	X_
Criteria were not met	707
and/or see below	

# VB. BLANK ANALYSIS RESULTS (Section 3)

**Blank Actions** 

Action Levels (ALs) should be based upon the highest concentration of contaminant determined in any blank. Do not qualify any blank with another blank. The ALs for samples which have been diluted should be corrected for the sample dilution factor and/or % moisture, where applicable. No positive sample results should be reported unless the concentration of the compound in the samples exceeds the ALs:

ALs = 10x the amount of common contaminants (methylene chloride, acetone, 2-butanone, and toluene)

ALs = 5x for any other compounds

Specific actions are as follows:

If the concentration is < sample quantitation limit (SQL) and  $\le$  AL, report the compound as not detected (U) at the SQL.

If the concentration is  $\geq$  SQL but  $\leq$  AL, report the compound as not detected (U) at the reported concentration.

If the concentration is  $\geq$  SQL and > AL, report the concentration unqualified.

Notes:

High and low level blanks must be treated separately

Compounds qualified "U" for blank contamination are still considered "hits" when qualifying for calibration criteria.

CONTAMINATION SOURCE/LEVEL	COMPOUND	CONC/UNITS	AL/UNITS	SQL	AFFECTED SAMPLES
	<u>'</u>				Village Control
					- 10.
· · · · · · · · · · · · · · · · · · ·					
		26			
	-				
		-			
	1				
0					

All criteria were metX
Criteria were not met
and/or see below

#### SURROGATE SPIKE RECOVERIES

Laboratory performance of individual samples is established by evaluation of surrogate spike recoveries. All samples are spiked with surrogate compounds prior to sample analysis. The accuracy of the analysis is measured by the surrogate percent recovery. Since the effects of the sample matrix are frequently outside the control of the laboratory and may present relatively unique problems, the validation of data is frequently subjective and demands analytical experience and professional judgment.

List the percent recoveries (%Rs) which do not meet the criteria for surrogate recovery. Matrix: solid/aqueous

SAMPLE ID	SURROGA	ACTION		
	1,2-DICHLOROETHANE- d4	Toluene- d8	4-BFB	
_Surrogate_reco	overies_within_laboratory_contro	ol_lim <del>i</del> ts		
		10.71		

QC Limits* (Air)			
LL to UL	70 to 130	70 to 130	70 to 130

- \* QC limits are laboratory in-house performance criteria, LL = lower limit, UL = upper limit.
- \* If QC limits are not available, use limits of 80 120 % for aqueous and 70 130 % for solid samples.

#### Actions:

QUALITY	%R < 10%	%R = 10% - LL	%R > UL
Positive results	J	J	J
Nondetects results	R	UJ	Accept

Surrogate action should be applied:

If one or more surrogate in the VOC fraction is out of specification, but has a recovery of > 10%.

If any one surrogate in a fraction shows < 10 % recovery.

All criteria were me	ett
Criteria were not in	iel
and/or see below _	N/A

## VII. A MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

This data is generated to determine long term precision and accuracy in the analytical method for various matrices. This data alone cannot be used to evaluate the precision and accuracy of individual samples. If any % R in the MS or MSD falls outside the designated range, the reviewer should determine if there are matrix effects, i.e. LCS data are within the QC limits but MS/MSD data are outside QC limit.

#### 1. MS/MSD Recoveries and Precision Criteria

The laboratory should use one MS and a duplicate analysis of an unspiked field sample if target analytes are expected in the sample. If target analytes are not expected, MS/MSD should be analyzed.

List the %Rs, RI Sample ID:		not meet the criteria.  Matrix/Level:			
MS OR MSD	COMPOUND	% R	RPD	QC LIMITS	ACTION
MS/MSD_ accuracy_		s_part_of_i	Method_	TO-15;_blank_s	spike_used_to_assess_

#### Actions:

QUALITY	%R < LL	%R > UL
Positive results	J	J
Nondetects results	R	Accept

MS/MSD criteria apply only to the unspiked sample, its dilutions, and the associated MS/MSD samples:

If the % R for the affected compounds were < LL (or 70 %), qualify positive results (J) and nondetects (UJ).

If the % R for the affected compounds were > UL (or 130 %), only qualify positive results (J).

If 25 % or more of all MS/MSD %R were < LL (or 70 %) or if two or more MS/MSD %Rs were < 10%, qualify all positive results (J) and reject nondetects (R).

A separate worksheet should be used for each MS/MSD pair.

<sup>\*</sup> QC limits are laboratory in-house performance criteria, LL = lower limit, UL = upper limit.

<sup>\*</sup> If QC limits are not available, use limits of 70 – 130 %.

All criteria were met \_\_\_\_\_ Criteria were not met and/or see below \_\_N/A\_\_\_

# VII. B MATRIX SPIKE/MATRIX SPIKE DUPLICATE

MS/MSD - Unspiked Compounds

It should be noted that Method TO-15 does not specify a MS/MSD criteria for the unspiked compounds in the sample. A %RSD of < 50% has therefore been utilized as professional judgment.

If all target analytes were spiked in the MS/MSD, this review element is not applicable.

List the %RSD of the compounds which do not meet the criteria.

Sample ID:			Matrix/Le	vel/Unit:	
COMPOUND	SAMPLE CONC.	MS CONC.	MSD CONC.	% RSD	ACTION
		,			Ø.
7.50			1000		
S.					
100	3/2			****	
12.00					

### Actions:

<sup>\*</sup> If the % RSD > 50, qualify the positive result in the unspiked samples as estimated (J).

<sup>\*</sup> If the % RSD is not calculated (NC) due to nondetected value, use professional judgment to qualify the data.

All criteria were met _	х_
Criteria were not met	
and/or see below	

# VIII. LABORATORY CONTROL SAMPLE (LCS) ANALYSIS

This data is generated to determine accuracy of the analytical method for various matrices.

1. LCS Recoveries Criteria

Where LCS spiked with the same analyte at the same concentrations as the MS/MSD? Yes or No. If no make note in data review memo.

List the %R of compounds which do not meet the criteria

	LCS ID	COMPOUND	% R	QC LIMIT
No_LCS	/LCSD_(Blank_s	spike)_analyzed_in_this_da	ta_package	
-	<u> </u>		<u> </u>	
		10 200		
		- D-3		

- \* QC limits are laboratory in-house performance criteria, LL = lower limit, UL = upper limit.
- \* If QC limits are not available, use limits of 70 130 %.

#### Actions:

QUALITY	%R < LL	%R > UL
Positive results	J	J
Nondetects results	R	Accept

All analytes in the associated sample results are qualified for the following criteria.

If 25 % of the LCS recoveries were < LL (or 70 %), qualify all positive results (j) and reject nondetects (R).

If two or more LCS were below 10 %, qualify all positive results as (J) and reject nondetects (R).

2. Frequency Criteria:

Where LCS analyzed at the required frequency and for each matrix? Yes or <u>No</u>. If no, the data may be affected. Use professional judgment to determine the severity of the effect and qualify data accordingly. Discuss any actions below and list the samples affected.

		All criteria were metN/A Criteria were not met and/or see below
IX.	LABORATORY DUPLICATE PRECISION	
	Sample IDs:	Matrix:

Field duplicates samples may be taken and analyzed as an indication of overall precision. These analyses measure both field and lab precision; therefore, the results may have more variability than laboratory duplicates which only laboratory performance. It is also expected that soil duplicate results will have a greater variance than water matrices due to difficulties associated with collecting identical field duplicate samples.

The project QAPP should be reviewed for project-specific information.

Suggested criteria: RPD ± 25% for air samples. If both samples and duplicate are <5 SQL, the RPD criteria is doubled.

COMPOUND	SQL	SAMPLE CONC.	DUPLICATE CONC.	RPD	ACTION
	lo field/labora	tory duplicate	analyzed with	this data	package.

#### Actions:

Qualify as estimated positive results (J) and nondetects (UJ) for the compound that exceeded the above criteria. For organics, only the sample and duplicate will be qualified.

If an RPD cannot be calculated because one or both of the sample results is not detected, the following actions apply:

If one sample result is not detected and the other is greater than 5x the SQL qualify (J/UJ).

If one sample value is not detected and the other is greater than 5x the SQL and the SQLs for the sample and duplicate are significantly different, use professional judgment to determine if qualification is appropriate.

If one sample value is not detected and the other is less than 5x, use professional judgment to determine if qualification is appropriate.

If both sample and duplicate results are not detected, no action is needed.

All criteria were met _	Х_	_
Criteria were not met		
and/or see below		

### X. INTERNAL STANDARD PERFORMANCE

The assessment of the internal standard (IS) parameter is used to assist the data reviewer in determining the condition of the analytical instrumentation.

List the internal standard area of samples which do not meet the criteria.

- \* Area of +40% or -40% of the IS area in the associated calibration standard.
- \* Retention time (RT) within  $\pm$  0.06 seconds of the IS area in the associated calibration standard.

DATE	SAMPLE ID	IS OUT	IS AREA	ACCEPTABLE RANGE	ACTION
	tandard_area_and_ro ration_standards				both_samples
Actions:					

1. IS actions should be applied to the compound quantitated with the out-of-control ISs

QUALITY	IS AREA < -40%	IS AREA > +40%
Positive results	J	J
Nondetected results	R	ACCEPT

If a IS retention time varies more than 0.330 seconds, the chromatographic profile for that sample must be examined to determine if any false positive or negative exists. For shifts of a large magnitude, the reviewer may consider partial or total rejection of the data for the sample fraction.

All criteria were met _X_	
Criteria were not met	
and/or see below	

# XII. SAMPLE QUANTITATION

The sample quantitation evaluation is to verify laboratory quantitation results. In the space below, please show a minimum of one sample calculation:

1605308E-03A

4-Bromofluorobenzene

RF = 0.52579

[] = (324997)(400)/(626756)(0.52579)

= 394.5 ppbv OK

All criteria were met _	_X_	
Criteria were not met		
and/or see below		

- XII. QUANTITATION LIMITS
- A. Dilution performed

SAMPLE ID	DILUTION FACTOR	REASONS FOR DILUTION
All samples dil	uted by a factor of less th	nan 2.68.
·		
	-	
10000		
and the same		

List samples which have ≤ 50 % solids	List samples which have ≤ 50 % solids	Percent Soli	ds			
		List camples	which have < 50	0 % solids		
		rior samples		o 70 00m00		

# Actions:

If the % solids of a soil sample is 10-50%, estimate positive results (J) and nondetects (UJ)

If the % solids of a soil sample is < 10%, estimate positive results (J) and reject nondetects (R)